Title (en)

GRAPHENE-BASED PRIMARY CHEMICAL CURRENT SOURCE

Title (de)

PRIMÄRE CHEMISCHE STROMQUELLE AUF GRAPHENBASIS

Title (fr)

SOURCE DE COURANT PRIMAIRE À BASE DE GRAPHÈNE

Publication

EP 3923386 A1 20211215 (EN)

Application

EP 19914569 A 20191223

Priority

- RU 2019103623 A 20190208
- RU 2019050254 W 20191223

Abstract (en)

The invention relates to the field of electrical engineering. The primary chemical current source is a new class of non-rechargeable, energy-saturated chemical current sources based on graphene in the metal-oxidized carbon electrochemical system, in which a nanostructured material based on graphene-like materials is used as a current-forming component of the cathode, which has an increased discharge capacity due to the presence of various oxygen-containing functions, capable of forming irreversible compounds with ions of the active material of the anode (for example, lithium, sodium, magnesium, calcium, potassium) during the current-forming process (discharge). The technical result is an increase in the energy performance of the primary chemical current source.

IPC 8 full level

H01M 4/583 (2010.01); **H01M 6/14** (2006.01)

CPC (source: EP IL KR RU US)

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Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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